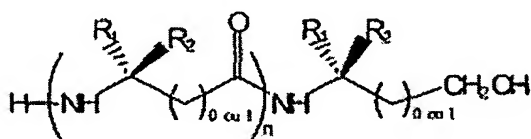


CLAIMS

1- Oligopeptides used as elicitors of the natural defenses of plants against fungal and/or bacterial and/or viral pathogens and/or plant pests by foliage, root or injection application; characterized in that they are obtained by organic or enzymatic synthesis; and that they have the particularity of being homopolymers of protein and/or non-protein amino acids and in that the amino acids constitute sequences of said polymers which are selected for their property to form structures of the spiral type.

2- Oligopeptides, according to claim 1, characterized in that they have the following formula:



in which R = H, alkyl, substituted alkyl;

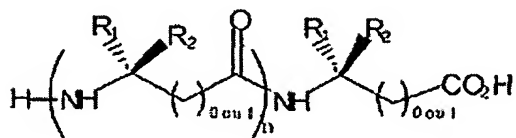
according to the L or D configuration of the amino acids used: R₁ and R₂ = H, alkyl, substituted or side chain alkyl of natural or non-natural amino acids, protected in the case of functional chains: R₁ and R₂ can be identical;

the N side terminal of the homopolymers being or not acylated;

n being comprised between 3 and 30 in the case of homopolymers obtained in a mixture;

n being comprised between 3 and 20 in the case of pure and characterized homopolymers.

3- Oligopeptides, according to claim 1, characterized in that they have the following formula:



5

in which R = H, alkyl, substituted alkyl;

according to the L or D configuration of the amino acids used: R₁ and R₂=H, alkyl, substituted or side chain alkyl of natural or non-natural amino acids, protected in the case of functional chains: R₁ and R₂ can be identical; the N side terminal of the homopolymers being acylated or not;

n being comprised between 3 and 30 in the case of homopolymers obtained in a mixture;

n being comprised between 3 and 20 in the case of pure and characterized homopolymers.

4- Composition characterized in that it comprises at least one oligopeptide obtained according to at least one of the preceding claims and comprising at least one amino acid of the protein and/or non-protein type.

5- Composition according to claim 4, characterized in that the oligopeptides used are incorporated in a vehicle used in agriculture of the wetting and penetrating type.

6- Composition according to claim 5, characterized in that it is present in liquid form, particularly aqueous solution.

7- Composition according to claim 5, characterized in that it is present in the solid form, particularly powder, granules or seed cladding.

5 8- Utilization of oligopeptides, as defined in any one of the preceding claims, characterized in that they have the effect of reducing, when they are applied:

- in cereals, particularly wheat, corn and rice, the attack of oidiums, septorioses, molds, fusarioses,
10 pyricularioses and bacterial and viral maladies;

- in fruit trees, particularly pear trees and apple trees, the attack of oidiums, tavelures, moniloses, bacterial and viral maladies such as "Sharka";

- in grape, the attack of oidium, of mildew, of
15 Botrytis, of maladies of the wood, of telluric and viral maladies such as "Short-Setting";

- in lawns and in horticulture, the attack of pythiaces, mushrooms with sclerotes, fusarioses, oidiums, bacterial and viral maladies;

20 - in oil producers, particularly soy, sunflower, melon, carrot, cauliflower and potato, the attack of oidiums, mildews, phythiaces (*Phytophthora*, *Pythium*), mushrooms with sclerotes (*Rhizoctonia*, *Sclerotinia*, *Pyrenocheta*), vascular mushrooms (*Fusarium*, *Verticillium*), bacterial and viral
25 maladies.